

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:	Ah Hwee TAN et al.	§	Confirmation No.:	8334
		§		
I.A. Filed:	24 October 2002	§	Group Art Unit:	2121
		§		
Serial No.:	10/532,163	§	Examiner:	A. L. Kennedy
		§		
Filed:	October 4, 2005	§	Atty. Docket No.:	2085-04100
		§		
For:	Method And System For	§		
	Discovering Knowledge From	§		
	Text Documents	§		

**STATEMENT SHOWING DELAY FROM DUE DATE TO FILING OF PETITION  
WAS UNAVOIDABLE**

Mail Stop Petition  
Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Date: March 6, 2009

Sir:

The assignee, inventor, and local counsel for this application are located in Singapore. As the attached email thread shows, the undersigned received notice by email on September 18, 2008 (September 19<sup>th</sup> in Singapore) from the US counsel of record for this case (Jonathan M. Harris) that a Final Office had been mailed by the Office the previous March (March 4, 2008). The undersigned reported the existence of the office action to the IP Manager for the assignee on September 22<sup>nd</sup>, 2008 and September 25<sup>th</sup>, 2008. The undersigned also corresponded with Mr. Harris by email requesting clarification as to what happened and the cost to revive the application.

Mr. Harris responded that a petition would be needed to have the case reinstated along with a statement explaining that the office action had not been received. On September 24, 2008, the undersigned reported to Mr. Harris that the assignee was in the process of making a decision about this case and that a decision would come later.

On October 3, 2008, the undersigned received the Notice of Abandonment for this case from Mr. Harris' secretary (Jennifer Ringer). See attached email thread.

The assignee is a large entity and decision making for this case is made by the Intellectual Property (IP) Management team as well as by an associated Research Institute. Needless to say, decision making on such patent matters by the assignee is normally relatively slow. The Assignee's IP Management team gave the undersigned an instruction to revive the application on November 4, 2008. See attached email thread.

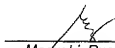
The undersigned then began to draft a response and amendment to the office action for filing by Mr. Harris on November 4, 2008. The drafting of an appropriate response went through five rounds of review with the inventor. A first draft response and amendment was sent to the Assignee's IP Management team on November 14, 2008, after which the inventor provided his comments on November 25, 2008. A second draft response and amendment was later sent to the Assignee's IP Management team on December 3, 2008 and the inventor provided his further input on December 29, 2008. The undersigned wrote to the Assignee's IP Management team on December 31, 2008 to discuss further on the inventor's comments. The Assignee's IP Management team replied on January 12, 2009 with their input. The undersigned then wrote to the Assignee's IP Management team again on January 21, 2009 to provide clarification on questions being raised by the inventor. The Assignee's IP Management team hence replied on January 29, 2009 to proceed with the response. Upon review of the second draft response and amendment on January 29, 2009, the undersigned improved the response and amendment further given the importance of the circumstance. The undersigned then sent it to the Assignee's IP Management team on February 23, 2009. The Assignee's IP Management team then gave the approval on March 3, 2009 to file the RCE and amendment.

At times, due to other commitments, the inventor was unavailable to provide assistance with the response. The undersigned had to liaise with the Assignee's IP Management team who had to contact the inventor to agree to contents of the draft response before finally receiving approval from the IP Management team on March 3, 2009 to file the RCE and amendment.

Given that there was no tangible deadline and that the undersigned were not duly notified of any applicable time period within which the undersigned were to respond, the

undersigned had to peruse the patent specification and the office action(s) including the undersigned previous filed responses to the previous office action(s) to ensure the response and any amendments to the claims are effective and do not contravene any restrictions such as adding matter, etc., additional time was taken to prepare a considered response and amendment. Furthermore, given the complexity in the nature of the technology involved, perusing the patent specification and formulating arguments and amendments required considerable time and effort. Additionally confirmation is required from the inventor to ensure the accuracy of the technical description, thus the response time from the inventor is also taken into account. The entire time period from the due date of the response to the time this petition was filed was unavoidable.

Respectfully submitted,

  
-----Meow Li, Pua-----

Petitioner/Applicant  
Representative of AGENCY FOR  
SCIENCE, TECHNOLOGY AND RESEARCH  
20 Biopolis Way, #07-01 Centros  
Singapore, Republic of Singapore 138668

**Jon Harris**

**From:** Axis [mailto:axis-ics.com]  
**Sent:** Friday, October 03, 2008 9:19 AM  
**To:** Jon Harris  
**Cc:** Jennifer Ringer  
**Subject:** Re: 2085-04100

Received with thanks, Meow Li

----- Original Message -----

**From:** Jon Harris  
**To:** Axis  
**Cc:** Jennifer Ringer  
**Sent:** Friday, October 03, 2008 10:15 PM  
**Subject:** FW: 2085-04100

Attached please find a Notice of Abandonment for this case.

Regards,

Jon

**From:** Axis [mailto:mail@axis-ics.com]  
**Sent:** Wednesday, September 24, 2008 6:12 AM  
**To:** Jon Harris  
**Cc:** Axis ICS - mail  
**Subject:** Re: RESPONSE REQUESTED: Your ref: A\*/LIT-P019US(WO)/fmk; FINAL OFFICE ACTION MAILED MARCH 4, 2008 for U.S. Serial No. 10/532,163; Our ref: 2085-04100  
**Importance:** High

Dear Jon,

Please hold. The client is deciding on the case now. We will revert later.

Regards,  
 Meow Li

----- Original Message -----

**From:** Jon Harris  
**To:** Axis  
**Sent:** Wednesday, September 24, 2008 2:12 AM  
**Subject:** RE: RESPONSE REQUESTED: Your ref: A\*/LIT-P019US(WO)/fmk; FINAL OFFICE ACTION MAILED MARCH 4, 2008 for U.S. Serial No. 10/532,163; Our ref: 2085-04100

**From:** Axis [mailto:mail@axis-ics.com]  
**Sent:** Tuesday, September 23, 2008 12:19 AM  
**To:** Jon Harris  
**Cc:** Axis ICS - mail; Jennifer Ringer; Rachell L. Bridwell; mabellelin@axis-ics.com  
**Subject:** Re: RESPONSE REQUESTED: Your ref: A\*/LIT-P019US(WO)/fmk; FINAL OFFICE ACTION MAILED MARCH 4, 2008 for U.S. Serial No. 10/532,163; Our ref: 2085-04100  
**Importance:** High

Dear Jon,

The client is concerned with the cost as the fault does not lies with them. They are considering whether to continue with this application or not. Is there anyway to revive the application without paying the official fee?

Regards,  
Meow Li

----- Original Message -----

**From:** Jon Harris  
**To:** Axis  
**Cc:** mabellelin@axis-ics.com ; Rachell L. Bridwell ; Jennifer Ringer  
**Sent:** Friday, September 19, 2008 11:10 PM  
**Subject:** RE: RESPONSE REQUESTED: Your ref: A\*/LIT-P019US(WO)/fmk; FINAL OFFICE ACTION MAILED MARCH 4, 2008 for U.S. Serial No. 10/532,163; Our ref: 2085-04100

If, as appears to be the case, the abandonment was unavoidable (we never received the office action and thus couldn't have timely responded), the fees are:

1. petition to revive application due to unavoidable abandonment. \$510 for large entity (\$255 for small)
2. professional fee. About \$300 or \$400. We'll need to prepare a statement and submit some evidence showing that we didn't receive the office action. A copy of our docket on which the matter would have been listed if we had received and docketed it, perhaps some statements from me and my staff to the effect that we never received the action, etc.

**From:** Axis [mailto:mail@axis-ics.com]  
**Sent:** Friday, September 19, 2008 12:56 AM  
**To:** Axis; Jennifer Ringer  
**Cc:** mabellelin@axis-ics.com; Rachell L. Bridwell; Jon Harris  
**Subject:** Re: RESPONSE REQUESTED: Your ref: A\*/LIT-P019US(WO)/fmk; FINAL OFFICE ACTION MAILED MARCH 4, 2008 for U.S. Serial No. 10/532,163; Our ref: 2085-04100  
**Importance:** High

Dear Jennifer,

Please let us know whether there will be any cost (professional and official fees) to revive this application. Any idea why this Final Office Action was not sent to your firm in March 2008?

Best regards,  
Meow Li

----- Original Message -----

**From:** Jennifer Ringer  
**To:** mabellelin@axis-ics.com ; mail@axis-ics.com ; puameowli@axis-ics.com  
**Cc:** Jon Harris ; Rachell L. Bridwell  
**Sent:** Friday, September 19, 2008 3:09 AM  
**Subject:** RESPONSE REQUESTED: Your ref: A\*/LIT-P019US(WO)/fmk; FINAL OFFICE ACTION MAILED MARCH 4, 2008 for U.S. Serial No. 10/532,163; Our ref: 2085-04100

U.S. National Phase Application  
Serial No.: 10/532,163  
Filing Date: October 4, 2005  
I.A. Filing Date: October 24, 2002  
Based on PCT/SG2003/000249  
Title: Method And System For Discovering Knowledge From Text Documents  
Your Ref: WIL-P019US(WO)/fmk  
Our Ref: 2085-04100

Dear Meow Li:

Enclosed is a copy of the Final Office Action (and the non-patent literature cited by the Examiner) Mailed March 4, 2008 by the Patent and Trademark Office on the above entitled application.

We note that we do not have any record of receiving the attached Final Office Action. Upon your confirmation, we will petition the PTO to revive this matter. *Accordingly, please reply to confirm that you wish to continue to pursue this patent application.*

Please contact us if you should have any comments or questions.

Best regards,

Jennifer Ringer, Legal Assistant  
Sent on behalf of Jonathan M. Harris, Esq.  
CONLEY ROSE, P.C.  
600 Travis Street, Suite 7100  
Houston, Texas 77002  
(713) 227-7153 (direct)  
(713) 238-8008 (fax)  
(713) 238-8000 (main)

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3/5/2009

**Jennifer Ringer**

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**From:** Juliana Chua [Juliana@exploit-tech.com]  
**Sent:** Tuesday, March 03, 2009 12:33 AM  
**To:** geremy  
**Cc:** 'Charlie'; foomookwang@axis-ics.com; axismail@axis-ics.com; tclim@axis-ics.com; Juliana Chua; Barbara Lim; Kelvin Foo; Louis Ang Boon Keong  
**Subject:** RE: U.S. Final Office Action; USSN 10/532,163; Our Ref: A\*/LIT-P019US(WO); Your Ref: LIT/P/2022/2533/US

Dear Geremy,

Thank you for your email.

Please proceed.

Regards,  
Juliana

-----Original Message-----

**From:** geremy [mailto:geremysia@axis-ics.com]  
**Sent:** 23 February 2009 17:48  
**To:** Juliana Chua  
**Cc:** 'Charlie'; foomookwang@axis-ics.com; axismail@axis-ics.com; tclim@axis-ics.com; Barbara Lim; Kelvin Foo; Louis Ang Boon Keong  
**Subject:** RE: U.S. Final Office Action; USSN 10/532,163; Our Ref: A\*/LIT-P019US(WO); Your Ref: LIT/P/2022/2533/US

Dear Juliana,

We write further to our email below and wish to inform you that we have revised the response communicated below.

We attach the revised response for your review. The amendments have been tracked for your ease of reference.

The revision comprises editorial amendments and an amendment to claim 34.

We have amended claim 34 to read "the means for analyzing the patterns for knowledge" instead of "the pattern analyzer". This is to impart antecedence thereto, in accordance with claim 25.

Whilst we have noted your instructions to proceed with the filing of the below communicated response, we send the revised response to you for your approval prior to doing so, since a revision has been made.

We look forward to hearing from you and will immediately proceed with the filing of the revised response upon your approval.

Thank you.

Best Regards,



Jeremy Sia

---

Axis Intellectual Capital Pte. Ltd. | 21/21A, Duxton Road, Singapore 089487  
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Axis Associates International Co., Ltd. | 253 Asoke, 15th Floor, Sukhumvit  
21 Road, Klongtoey Nua, Wattana, Bangkok 10110, Thailand | Tel: +66 (0) 2  
664 3551-2 | Fax: +66 (0) 2 664 3550  
Axis Website: <http://www.axis-ics.com/>

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-----Original Message-----

From: geremy [mailto:[geremysia@axis-ics.com](mailto:geremysia@axis-ics.com)]

Sent: Monday, February 02, 2009 2:06 PM

To: 'Juliana Chua'

Cc: 'Charlie'; 'foomookwang@axis-ics.com'; 'axismail@axis-ics.com'; 'tclim@axis-ics.com'; 'Barbara Lim'; 'Kelvin Foo'; 'Louis Ang Boon Keong'

Subject: RE: U.S. Final Office Action; USSN 10/532,163; Our Ref:

A\*/LIT-P019US(WO); Your Ref: LIT/P/2022/2533/US

Dear Juliana,

Thank you for your email below.

To summarize our correspondence pertaining to the below mentioned fees involved:

1) As provided in our email of 25 September 08, our US associate suggested filing of a "petition to withdraw holding of abandonment" and there will be no official fee for doing so.

2) In our email of 1 November 08, it was communicated that our US associate had agreed to waive their professional fees only for the purpose of reviving the referenced application.

Meanwhile, we acknowledge receipt of your instruction to proceed with the filing of the below mentioned proposed response to the Final Office Action.

Our report will follow in due course. Please do not hesitate to contact us if you have further queries.

Best Regards,

Jeremy Sia

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-----Original Message-----

From: Juliana Chua [mailto:Juliana@exploit-tech.com]  
Sent: Thursday, January 29, 2009 4:01 PM  
To: geremy  
Cc: 'Charlie'; foomookwang@axis-ics.com; axismail@axis-ics.com; tclim@axis-ics.com; Juliana Chua; Barbara Lim; Kelvin Foo; Louis Ang Boon Keong  
Subject: RE: U.S. Final Office Action; USSN 10/532,163; Our Ref: A\*/LIT-P019US(WO); Your Ref: LIT/P/2022/2533/US

Dear Jeremy,

Thank you for your clarification. Please proceed to file the proposed response to the Final Office Action.

Additionally, we note your email of 1 Nov 2008 stating of the waiver of professional fee and USPTO official fee for reviving this patent application.

Kindly acknowledge safe receipt of our instruction. Thank you.

Regards,  
Juliana

-----Original Message-----

From: geremy [mailto:geremysia@axis-ics.com]  
Sent: 21 January 2009 14:38  
To: Juliana Chua  
Cc: 'Charlie'; foomookwang@axis-ics.com; axismail@axis-ics.com; tclim@axis-ics.com  
Subject: RE: U.S. Final Office Action; USSN 10/532,163; Our Ref: A\*/LIT-P019US(WO); Your Ref: LIT/P/2022/2533/US

Dear Juliana,

We apologize for our delayed reply.

We will keep to the original language of claim 8 in accordance with your instruction below.

With regard to your query on the usage of "any one of" and "at least one of", we provide an example for the purpose of illustrating the difference.

"Any one of A and B" - covers element A and element B individually.

"At least one of A and B" - covers element A and element B and a combination of elements A and B.

Therefore, there is a need to consider if the neural network, statistical network and symbolic learning machine can be mutually exclusive or not before changing the language of the claim from "at least one of" to "any one of".

We hope the above answered your queries. In the meantime, please do not hesitate to contact us if you have further queries.

Best Regards,

Jeremy Sia

---

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21 Road, Klongtoey Nua, Wattana, Bangkok 10110, Thailand | Tel: +66 (0) 2  
664 3551-2 | Fax: +66 (0) 2 664 3550  
Axis Website: <http://www.axis-ics.com/>

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-----Original Message-----

From: Juliana Chua [mailto:Juliana@exploit-tech.com]  
Sent: Monday, January 12, 2009 3:06 PM  
To: jeremy  
Cc: 'Charlie'; Juliana Chua  
Subject: RE: U.S. Final Office Action; USSN 10/532,163; Our Ref:  
A\*/LIT-P019US(WO); Your Ref: LIT/P/2022/2533/US

Dear Jeremy,

After a discussion with the inventors, they would prefer if we can keep to the original language as claim 8 wherein the step of analyzing the plurality of patterns using the associative discoverer

comprises the step of analyzing the plurality of patterns using at least one of a neural network, a statistical system, and a symbolic machine learning system.

Is it also possible to use 'any one (or more) of' instead of 'at least one of'?

Regards,

Juliana

---

From: geremy [mailto:geremysia@axis-ics.com]  
Sent: 31 December 2008 16:14  
To: Juliana Chua  
Cc: 'Charlie'  
Subject: RE: U.S. Final Office Action; USSN 10/532,163; Our Ref: A\*/LIT-P019US(WO); Your Ref: LIT/P/2022/2533/US

Dear Juliana,

Thank you for your email below.

We note your inventors' comments.

Based on your inventors' comment that the associative discoverer can be based on any learning model and hence is more generic than, e.g. a method that just uses a neural network or a statistical model, it appears that your inventors wish to convey that the associate discoverer can be based on a combination of:

- 1) supervised learning;
- 2) unsupervised learning; or
- 3) both supervised and unsupervised learning.

Kindly advise if what your inventors wish to convey is contrary to the above.

We therefore propose to amend "capable of one of supervised and unsupervised learning" in claims 8, 20 and 34 to "capable of at least one of supervised and unsupervised learning"

With the above proposed amendment the associative discoverer can therefore be based on the combinations of (1), (2) and (3) above.

We hope the above proposed is acceptable to you and look forward to hearing from you soon.

Best Regards,

Jeremy Sia

---

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089487 | Tel: +65 6323 6322 | Fax: +65 6323 6383 Axis Associates International Co., Ltd. | 253  
Asoke, 15th Floor, Sukhumvit 21 Road, Klongtoey Nua, Wattana, Bangkok 10110, Thailand |  
Tel: +66 (0) 2 664 3551-2 | Fax: +66 (0) 2 664 3550 Axis Website: <http://www.axis-ics.com/>

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From: Juliana Chua [mailto:Juliana@exploit-tech.com]  
Sent: Monday, December 29, 2008 7:03 PM  
To: jeremy  
Cc: Woon Loon; Charlie; Juliana Chua  
Subject: RE: U.S. Final Office Action; USSN 10/532,163; Our Ref:  
A\*/LIT-P019US(WO); Your Ref: LIT/P/2022/2533/US

Dear Jeremy,

We are agreeable to the draft response apart from the following comment.

The response to claims 8, 20 and 34, about the "claim limitation of the use of a combination of ..." is still not quite right. In particular, the part in the amended claims "capable of one of supervised and unsupervised learning" appears to be misleading. What our inventor would like to convey here is: the associative discoverer can be based on any learning model and hence is more generic than, e.g. a method that just uses a neural network or a statistical model.

Regards,

Juliana

---

From: Woon Loon [mailto:woonloon@axis-ics.com]  
Sent: 05 December 2008 19:55  
To: Juliana Chua  
Cc: jeremy; Charlie  
Subject: Re: U.S. Final Office Action; USSN 10/532,163; Our Ref: A\*/LIT-P019US(WO); Your Ref: LIT/P/2022/2533/US

Dear Juliana,

Please kindly be informed that this case has been transferred to my colleague Jeremy, who is copied in this email.

He will be liaising with you on this case if you need any further assistance.

Thank you very much for your kind attention to the above matters.

Best Regards,

See Woon Loon

---

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----- Original Message -----

From: Woon Loon <mailto:woonloon@axis-ics.com>

To: Juliana Chua <mailto:Juliana@exploit-tech.com>

Cc: Louis Ang Boon Keong <mailto:louis@exploit-tech.com> ; Kelvin Foo <mailto:kelvin@exploit-tech.com> ; Barbara Lim <mailto:barbara@exploit-tech.com> ; Juliana Chua <mailto:Juliana@exploit-tech.com> ; Axis <mailto:axismail@axis-ics.com> ; geremy <mailto:geremysia@axis-ics.com> ; Charlie <mailto:charliesim@axis-ics.com>

Sent: Wednesday, December 03, 2008 7:20 PM

Subject: Re: U.S. Final Office Action; USSN 10/532,163; Our Ref: A\*/LIT-P019US(WO); Your Ref: LIT/P/2022/2533/US

Dear Juliana,

Please find attached a revised draft response to the subject final US Office Action. The amendments are based on your inputs as well as those from the inventors and are highlighted for your easy reference.

Please kindly assist us in having the revised draft response reviewed by the inventors or yourself and provide any amendments or comments where necessary.

We look forward to your further instructions with regard to the revised draft response in due course.

Best Regards,

See Woon Loon

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----- Original Message -----

From: Woon Loon <<mailto:woonloon@axis-ics.com>>

To: Juliana Chua <<mailto:Juliana@exploit-tech.com>>

Cc: Axis <<mailto:axismail@axis-ics.com>> ; Juliana Chua <<mailto:Juliana@exploit-tech.com>> ; Barbara Lim <<mailto:barbara@exploit-tech.com>> ; Kelvin Foo <<mailto:kelvin@exploit-tech.com>> ; Louis Ang Boon Keong <<mailto:louis@exploit-tech.com>>

Sent: Wednesday, November 26, 2008 2:08 PM

Subject: Re: U.S. Final Office Action; USSN 10/532,163; Our Ref: A\*/LIT-P019US(WO);  
Your Ref: LIT/P/2022/2533/US

Dear Juliana,

Noted your comments below with thanks.

Best Regards,

See Woon Loon

---



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----- Original Message -----

From: Juliana Chua <<mailto:Juliana@exploit-tech.com>>

To: Woon Loon <<mailto:woonloon@axis-ics.com>>

Cc: Axis <<mailto:axismail@axis-ics.com>> ; Juliana Chua <<mailto:Juliana@exploit-tech.com>> ; Barbara Lim <<mailto:barbara@exploit-tech.com>> ; Kelvin Foo <<mailto:kelvin@exploit-tech.com>> ; Louis Ang Boon Keong <<mailto:louis@exploit-tech.com>>

Sent: Wednesday, November 26, 2008 1:30 PM

Subject: RE: U.S. Final Office Action; USSN 10/532,163; Our Ref: A\*/LIT-P019US(WO); Your Ref: LIT/P/2022/2533/US

Dear Woon Loon,

An additional point to note. In the previous draft response, the claims were amended from "at least one" to "a combination of" various classifiers etc. This appears to be in accurate as it stated in our specification that the associative discoverer can be any learning algorithm (supervised/unsupervised/semi-supervised) - and therefore not just a combo of the indicated classifier models.

Thank you.

Regards,

Juliana

---

From: Woon Loon [mailto:woonloon@axis-ics.com]  
Sent: 25 November 2008 12:24  
To: Juliana Chua  
Cc: Axis; Juliana Chua; Barbara Lim; Kelvin Foo; Louis Ang Boon Keong  
Subject: Re: U.S. Final Office Action; USSN 10/532,163; Our Ref: A\*/LIT-P019US(WO); Your Ref: LIT/P/2022/2533/US

Dear Juliana,

Thank you very much for your email below and the inventors' comments.

We shall forward you a revised draft response based on the inventors' comments soon.

Best Regards,

See Woon Loon

---

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<http://www.axis-ics.com> <<http://www.axis-ics.com/>>

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----- Original Message -----

From: Juliana Chua <mailto:Juliana@exploit-tech.com>

To: Woon Loon <mailto:woonloon@axis-ics.com>

Cc: Axis <mailto:axismail@axis-ics.com> ; Juliana Chua <mailto:Juliana@exploit-tech.com> ; Barbara Lim <mailto:barbara@exploit-tech.com> ; Kelvin Foo <mailto:kelvin@exploit-tech.com> ; Louis Ang Boon Keong <mailto:louis@exploit-tech.com>

Sent: Tuesday, November 25, 2008 11:03 AM

Subject: RE: U.S. Final Office Action; USSN 10/532,163; Our Ref: A\*/LIT-P019US(WO); Your Ref: LIT/P/2022/2533/US

Dear Woon Loon,

Thank you for your draft response. The comments from our inventors follow:

I. Two important points mentioned in our comments did not come out very clearly and completely in the response.

\* It is fine to equate

"keywords" with "entities". However it is incorrect to say that "words being in classes" is the same as the "relations" extracted in the proposed invention. The relations we refer to are semantic relations relating words that can be extracted from the text documents without the use of "classes".

\* D1 does disclose the use of a

knowledge base, but the knowledge is of the form of rules or relations linking the keywords to classes. In contrast, (as stated in a prior sentence in the same paragraph) the knowledge base in the proposed invention is used to convert each key entity (which is deemed as equivalent to keyword) into a plurality of attributes. D1 certainly not converts keywords into plurality of attributes. This step is also not mentioned in D2, D3 etc.

II. The examiner asked for clarifications on some 'generic' terms used in our description, but it seems that he can still find fault with them. They could be worded a little more specific.

III. Also as mentioned previously, "D1 does not disclose the extraction of text content from documents, which contain at least one of text, image and video information".'

Regards,

Juliana

---

From: Woon Loon [mailto:woonloon@axis-ics.com]  
Sent: 14 November 2008 17:07  
To: Juliana Chua  
Cc: Axis; Juliana Chua; Barbara Lim; Kelvin Foo; Louis Ang Boon Keong;  
Mabelle Lin; Axis; Moo Kwang Foo  
Subject: Re: U.S. Final Office Action; USSN 10/532,163; Our Ref: A\*/LIT-  
P019US(WO); Your Ref:  
LIT/P/2022/2533/US

Dear Juliana,

Thank you very much for your email below.

Please find attached a draft response to the subject final US Office Action.

Please kindly assist us in having the draft response reviewed by the inventor or yourself and provide any amendments or comments where necessary.

We look forward to your further instructions with regard to the draft response in due course.

Best Regards,

See Woon Loon

---

Axis Intellectual Capital Pte. Ltd  
21/21A, Duxton Road, Singapore 089487  
Tel: +65 6323 6322 | Fax: +65 6323 6383  
| <<http://www.axis-ics.com/>> <http://www.axis-ics.com>

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----- Original Message -----

From: Juliana Chua <<mailto:Juliana@exploit-tech.com>>

To: Axis <<mailto:axismail@axis-ics.com>> ; Woon Loon See  
<<mailto:woonloon@axis-ics.com>>

Cc: Juliana Chua <<mailto:Juliana@exploit-tech.com>> ; Barbara Lim  
<<mailto:barbara@exploit-tech.com>> ; Kelvin Foo <<mailto:kelvin@exploit-tech.com>> ; Louis Ang  
Boon Keong <<mailto:louis@exploit-tech.com>> ; Mabelle Lin <<mailto:mabellelin@axis-ics.com>> ; Axis  
<<mailto:mail@axis-ics.com>> ; Moo Kwang Foo <<mailto:foomookwang@axis-ics.com>>

Sent: Friday, November 14, 2008 5:08 PM

Subject: RE: U.S. Final Office Action; USSN 10/532,163; Our Ref: A\*/LIT-  
P019US(WO); Your Ref:  
LIT/P/2022/2533/US

Hi Meow Li,

Thanks for the update.

Hi Woon Loon,

How's the progress of the draft response?

Regards,

Juliana

---

From: Axis [mailto:axismail@axis-ics.com]  
Sent: 06 November 2008 18:47  
To: Juliana Chua  
Cc: Woon Loon See; Barbara Lim; Kelvin Foo; Louis Ang Boon Keong; Juliana Chua; Mabelle Lin; Axis; Moo Kwang Foo  
Subject: Re: U.S. Final Office Action; USSN 10/532,163; Our Ref: A\*/LIT-P019US(WO); Your Ref: LIT/P/2022/2533/US  
Importance: High

Dear Juliana,

The case has been passed onto Woon Loon to expedite.

Best regards,

Meow Li, Pua

for Axis Intellectual Capital

----- Original Message -----

From: Axis <mailto:axismail@axis-ics.com>

To: Juliana Chua <mailto:Juliana@exploit-tech.com>

Cc: Moo Kwang Foo <mailto:foomookwang@axis-ics.com> ; Axis <mailto:mail@axis-ics.com> ; Mabelle Lin <mailto:mabellelin@axis-ics.com> ; Juliana Chua <mailto:Juliana@exploit-tech.com> ; Louis Ang Boon Keong <mailto:louis@exploit-tech.com> ; Kelvin Foo <mailto:kelvin@exploit-tech.com> ; Barbara Lim <mailto:barbara@exploit-tech.com>

Sent: Tuesday, November 04, 2008 8:14 PM

Subject: Re: U.S. Final Office Action; USSN 10/532,163; Our Ref: A\*/LIT-P019US(WO); Your Ref: LIT/P/2022/2533/US

Dear Juliana,

Your instruction is noted with thanks.  
I will check who will be preparing the draft and let you know soon.

Best regards,

Meow Li, Pua

for Axis Intellectual Capital

----- Original Message -----

From: Juliana Chua <mailto:Juliana@exploit-tech.com>

To: Axis <mailto:axismail@axis-ics.com>

Cc: Moo Kwang Foo <mailto:foomookwang@axis-ics.com> ; Axis <mailto:mail@axis-ics.com> ;  
Mabelle Lin <mailto:mabellelin@axis-ics.com> ; Juliana Chua <mailto:Juliana@exploit-tech.com> ;  
Louis Ang Boon Keong <mailto:louis@exploit-tech.com> ; Kelvin Foo <mailto:kelvin@exploit-  
tech.com> ; Barbara Lim <mailto:barbara@exploit-tech.com>

Sent: Tuesday, November 04, 2008 8:08 PM

Subject: RE: U.S. Final Office Action; USSN 10/532,163; Our Ref: A\*/LIT-  
P019US(WO); Your Ref:  
LIT/P/2022/2533/US

Dear Meow Li,

Please proceed to revive this case and prepare a draft response to the Final Office Action. Ricky dealt with the previous response but I'm uncertain if he is still looking into this. In which case, kindly assist to channel the information to patent attorney in charge and keep us updated.

Our inventor has reviewed the Examiner's response to our previous arguments and provides his comments, as stated below. Do let us know if further clarification is required.

We look forward to receive a draft response at the earliest possible.

## Comments from Inventors

Page 13 [Responses 1 & 2]:

Equating the Domain knowledge usage in He Ji, et.al with that of our invention is incorrect. As described in Page 96 of HeJi, the domain knowledge is of the form rules linking keywords to classes. In contrast, (as stated in a prior sentence in the same paragraph) the knowledge base in the proposed invention is used to convert each key entity (which is deemed as equivalent to keyword) into a plurality of attributes. D1 certainly not converts keywords into plurality of attributes. This step is also not mentioned in D2, D3 etc.

Page 16 & 18:

While it may be ok to equate "keywords" with "entities", it is not correct to say that "words being in classes" is the same as the "relations" extracted in the proposed invention. The relations we refer to are semantic relations relating words that can be extracted from the text documents without the use of "classes".

Page 14 [Responses 1 & 2]:

On looking more carefully, I think it's not quite right to claim "D1 does not disclose the extraction of text content from documents, which contain at least one of text, image and video information". It's only a supporting claim, and should be considered together with the main claims.

Similarly, "selecting the plurality of key entities based on the frequency of appearance in the semi-structured meta-data" can also not be claimed novel. It's again a supporting claim.

Others:

\* Terms that the examiner has problems with probably have to be defined explicitly so as not to cause any confusion. These are some ideas/suggestions:

\* Key entities: Please see description



in Page 6, lines 20-30 in "Detailed description"

\* Set of attributes and lower level entities characterizing the plurality of attributes: pls see description in Page 12, lines 20-30 in "Detailed description" and Page 13, lines 1-10.

\* Hidden key relations are relations connecting a key entity's attributes with another entity or its attributes, which are not explicitly stated in the texts or domain KB.  
By definition they are implicit.

Best regards,

Juliana

---

From: Axis [mailto:axismail@axis-ics.com]

Sent: 01 November 2008 15:51

To: Juliana Chua

Cc: Moo Kwang Foo; Axis; Mabelle Lin; Louis Ang Boon Keong; Kelvin Foo;

Barbara Lim

Subject: Re: U.S. Final Office Action; USSN 10/532,163; Our Ref: A\*/LIT-

P019US(WO); Your Ref:

LIT/P/2022/2533/US

Importance: High

Dear Juliana,

The U.S. associate has agreed to waive their professional fee and USPTO official fee for reviving USSN 10/532,163. Please note that a response or R.C.E. or Notice of Appeal will still need to be filed. Please let us have your instructions as soon as possible to revive the case and to prepare an appropriate response to the Final Office Action of 4 March 2008.

Best regards,

Meow Li, Pua  
for Axis Intellectual Capital

----- Original Message -----

From: Axis <mailto:axismail@axis-ics.com>

To: Juliana Chua <mailto:Juliana@exploit-tech.com>

Cc: Barbara Lim <mailto:barbara@exploit-tech.com> ; Kelvin Foo  
<mailto:kelvin@exploit-tech.com> ; Louis Ang Boon Keong <mailto:louis@exploit-tech.com> ;  
Mabelle Lin <mailto:mabellelin@axis-ics.com> ; Axis <mailto:mail@axis-ics.com>

Sent: Tuesday, October 28, 2008 12:52 PM

Subject: Re: U.S. Final Office Action; USSN 10/532,163; Our Ref: A\*/LIT-  
P019US(WO); Your Ref:  
LIT/P/2022/2533/US

Dear Juliana,

The U.S. associate has agreed to waive their professional fee for the revival portion. A response or R.C.E. or Notice of Appeal will still need to be filed. Hence, if their time is needed on any of the above, they will bill for their professional fee for such matters.

Please let us have your instruction as soon as possible to prepare an appropriate response to the Final Office Action of 4 March 2008.

Best regards,

Meow Li, Pua  
for Axis Intellectual Capital

----- Original Message -----

From: Juliana Chua <mailto:Juliana@exploit-tech.com>

To: Axis <mailto:axismail@axis-ics.com>  
Cc: Juliana Chua <mailto:Juliana@exploit-tech.com> ; Barbara Lim <mailto:barbara@exploit-tech.com> ; Kelvin Foo <mailto:kelvin@exploit-tech.com> ; Louis Ang Boon Keong <mailto:louis@exploit-tech.com> ; Mabelle Lin <mailto:mabellelin@axis-ics.com> ; Axis <mailto:mail@axis-ics.com>

Sent: Thursday, October 23, 2008 4:05 PM

Subject: RE: U.S. Final Office Action; USSN 10/532,163; Our Ref: A\*/LIT-P019US(WO); Your Ref: LIT/P/2022/2533/US

Dear Meow Li,

As spoken, please assist to pursue the cost incurred to revive this patent application. If you refer to US-PAIR (see image below), a final rejection was established on 19 Feb 2008. While it is fateful that the US firm did not receive a copy of the Office Action, I trust that a docketing system is in place to provide reminders. Further to my last email to file a response to a Non Final Rejection, it is reasonably expected of a patent firm to check their system when they did not hear from the USPTO on the progress of the application since Nov 2007 and not to inform us in Sep 2008 that there is an unavoidable abandonment. In view of the mentioned, I do not think it is fair for the cost to be borne at our end.

Please review this case and revert with a clarification on the cost and I would look forward to hear about the progress of reviving the patent application.

Thank you for your help on this.

Best regards,

Juliana

Dear Juliana,

The U.S. associate has suggested an alternative by filing a "petition to withdraw holding of abandonment". There will not be any official fee for doing so. However, there will still be an associate's fees because there is a need to present evidence to show that they did not receive the final office action whether a petition to withdraw holding of abandonment or a petition to revive due to unavoidable abandonment (as mentioned earlier) is filed. These costs shall have to be borne by Exploit. If the first petition does not get approved, then the petition to revive due to unintentional abandonment would have to be filed and the USPTO official fee is likely to be higher in this case.

Please let us know on how you wish to proceed with this case.

---

From: Axis [mailto:axismail@axis-ics.com]  
Sent: 22 October 2008 15:32  
To: Juliana Chua  
Cc: Barbara Lim; Kelvin Foo; Louis Ang Boon Keong; Mabelle Lin; Axis  
Subject: Re: U.S. Final Office Action; USSN 10/532,163; Our Ref: A\*/LIT-

P019US(WO); Your Ref:  
LIT/P/2022/2533/US

Importance: High

Dear Juliana,

Your instruction is noted with thanks.  
We will write to the U.S. associate today and revert as soon as possible.

Kind regards,

Meow Li, Pua

for Axis Intellectual Capital

----- Original Message -----

From: Juliana Chua <mailto:Juliana@exploit-tech.com>

To: Axis <mailto:mail@axis-ics.com>

Cc: Juliana Chua <mailto:Juliana@exploit-tech.com> ; Barbara Lim <mailto:barbara@exploit-tech.com> ; Kelvin Foo <mailto:kelvin@exploit-tech.com> ; Louis Ang Boon Keong <mailto:louis@exploit-tech.com> ; Mabelle Lin <mailto:mabellelin@axis-ics.com>

Sent: Wednesday, October 22, 2008 3:18 PM

Subject: RE: U.S. Final Office Action; USSN 10/532,163; Our Ref: A\*/LIT-P019US(WO); Your Ref: LIT/P/2022/2533/US

Hi Meow Li,

As spoken, we note that the patent application can be revive and in this regard, please proceed on an economical scale. I'll appreciate if you can provide an update regarding the progress of the petition. In parallel, we will prepare the comments for the attorney to prepare a draft response and email it over as soon as it is ready.

Regards,

Juliana

---

From: Axis [mailto:mail@axis-ics.com]

Sent: 25 September 2008 14:55

To: Juliana Chua

Cc: Axis ICS - mail; Barbara Lim; Kelvin Foo; Louis Ang Boon Keong; Mabelle

Lin

Subject: Re: U.S. Final Office Action; USSN 10/532,163; Our Ref: A\*/LIT-P019US(WO); Your Ref: LIT/P/2022/2533/US

Importance: High

Dear Juliana,

The U.S. associate has suggested an alternative by filing a "petition to withdraw holding of abandonment".

There will not be any official fee for doing so. However, there will still be an associate's fees because there is a need to present evidence to show that they did not receive the final office action whether a petition to withdraw holding of abandonment or a petition to revive due to unavoidable abandonment (as mentioned earlier) is filed. These costs shall have to be borne by Exploit. If the first petition does not get approved, then the petition to revive due to unintentional abandonment would have to be filed and the USPTO official fee is likely to be higher in this case.

Please let us know on how you wish to proceed with this case.

Kind regards,

Meow Li, Pua

for Axis Intellectual Capital

----- Original Message -----

From: Axis <mailto:mail@axis-ics.com>

To: Juliana Chua <mailto:Juliana@exploit-tech.com>

Cc: Mabelle Lin <mailto:mabellelin@axis-ics.com> ; Louis Ang Boon Keong <mailto:louis@exploit-tech.com> ; Kelvin Foo <mailto:kelvin@exploit-tech.com> ; Barbara Lim-Nothacker <mailto:barbara@exploit-tech.com> ; Axis ICS - mail <mailto:mail@axis-ics.com>

Sent: Monday, September 22, 2008 4:15 PM

Subject: U.S. Final Office Action; USSN 10/532,163; Our Ref: A\*/LIT-P019US(WO); Your Ref: LIT/P/2022/2533/US

22 September 2008

Dear Juliana,

10/532,163

U.S. Utility Patent Application No.

U.S. Filing Date: 20 April 2005

Based on International Patent Application No. PCT/SG2002/000249

Title: Method And System For Discovering Knowledge From Text Documents

Assignee: Agency for Science, Technology and Research

Our Ref: A\*/LIT-P019US(WO)

Your Ref: LIT/P/2022/2533/US

We received an email from the U.S. associate informing us that a Final Office Action was mailed by the USPTO on 4 March 2008 but their firm did not receive this copy. As a result, the above application has been abandoned due to no response.

Please therefore let us know if you would like the U.S. associate to revive the above application. The cost for doing so is approximately USD 950.00 as they have to file a petition to revive the application due to an unavoidable abandonment and to submit statement that the firm did not receive the office action.

We look forward to hearing from you soon.

Yours sincerely,

Meow Li, Pua

for Axis Intellectual Capital

=====  
Axis Intellectual Capital Pte Ltd

21/21A Duxton Road

Singapore 089487

Tel: (65) 6323 6333

Fax: (65) 6323 6383

General Email: mail@axis-ics.com

=====

\_\_\_\_\_ NOD32 3544 (20081021) Information \_\_\_\_\_

This message was checked by NOD32 antivirus system.  
<http://www.eset.com>

No virus found in this incoming message.  
Checked by AVG - <http://www.avg.com>  
Version: 8.0.169 / Virus Database:

270.7.1/1687 - Release Date: 9/24/2008 6:51 PM

\_\_\_\_\_ NOD32 3547 (20081022) Information \_\_\_\_\_

This message was checked by NOD32 antivirus system.  
<http://www.eset.com>

No virus found in this incoming message.  
Checked by AVG - <http://www.avg.com>  
Version: 8.0.175 / Virus Database:

270.8.2/1738 - Release Date: 10/21/2008 2:10 PM

No virus found in this incoming message.  
Checked by AVG - <http://www.avg.com>  
Version: 8.0.175 / Virus Database:

270.8.5/1761 - Release Date: 11/1/2008 7:56 PM

No virus found in this incoming message.



Checked by AVG - <http://www.avg.com>  
Version: 8.0.175 / Virus Database:

270.9.0/1770 - Release Date: 11/5/2008 5:36 PM

No virus found in this incoming message.  
Checked by AVG - <http://www.avg.com>  
Version: 8.0.175 / Virus Database:

270.9.3/1786 - Release Date: 11/13/2008 6:01 PM

No virus found in this incoming message.  
Checked by AVG - <http://www.avg.com>  
Version: 8.0.175 / Virus Database: 270.9.9/1808

- Release Date: 11/24/2008 2:36 PM

No virus found in this incoming message.  
Checked by AVG - <http://www.avg.com>  
Version: 8.0.176 / Virus Database: 270.9.15/1838 - Release Date:  
12/8/2008 6:16 PM

No virus found in this incoming message.  
Checked by AVG - <http://www.avg.com>  
Version: 8.0.176 / Virus Database: 270.10.1/1868 - Release Date:  
1/1/2009 5:01 PM

No virus found in this incoming message.  
Checked by AVG - <http://www.avg.com>  
Version: 8.0.176 / Virus Database: 270.10.6/1887 - Release Date: 1/11/2009  
5:57 PM

No virus found in this incoming message.  
Checked by AVG - <http://www.avg.com>  
Version: 8.0.176 / Virus Database: 270.10.10/1905 - Release Date: 1/20/2009  
2:34 PM

No virus found in this incoming message.  
Checked by AVG - <http://www.avg.com>  
Version: 8.0.176 / Virus Database: 270.10.15/1922 - Release Date: 1/28/2009  
7:24 PM

No virus found in this incoming message.  
Checked by AVG - [www.avg.com](http://www.avg.com)  
Version: 8.0.237 / Virus Database: 270.11.2/1965 - Release Date: 02/22/09 17:21:00

\_\_\_\_\_ NOD32 3903 (20090303) Information \_\_\_\_\_

This message was checked by NOD32 antivirus system.  
<http://www.eset.com>

